

gases or vapors with poor warning properties (except where MSHA or Occupational Safety and Health Administration standards may permit such use for a specific gas or vapor) or those which generate high heats of reaction with sorbent material in the cartridge.

(e) Respirators with cartridges containing or having attached to them filters for protection against dusts, fumes, and mists, except the mists of paints, lacquers, and enamels. These respirators are not for use against gases or vapors with poor warning properties (except where MSHA or Occupational Safety and Health Administration standards may permit such use for a specific gas or vapor) or those which generate high heats of reaction with sorbent material in the cartridge.

**§ 84.1131 Respirators; required components.**

(a) Each respirator described in § 84.1130 shall, where its design requires, contain the following component parts:

- (1) Facepiece, mouthpiece with nose-clip, hood, or helmet;
- (2) Filter unit, canister with filter, or cartridge with filter;
- (3) Harness;
- (4) Attached blower; and
- (5) Breathing tube.

(b) The components of each respirator shall meet the minimum construction requirements set forth in Subpart G of this part.

**§ 84.1132 Breathing tubes; minimum requirements.**

(a) Flexible breathing tubes used in conjunction with respirators shall be designed and constructed to prevent:

- (1) Restriction of free head movement;
- (2) Disturbance of the fit of facepieces, mouthpieces, hoods, or helmets;
- (3) Interference with the wearer's activities; and
- (4) Shutoff of airflow due to kinking, or from chin or arm pressure.

**§ 84.1133 Harnesses; installation and construction; minimum requirements.**

(a) Each respirator shall, where necessary, be equipped with a suitable har-

ness designed and constructed to hold the components of the respirator in position against the wearer's body.

(b) Harnesses shall be designed and constructed to permit easy removal and replacement of respirator parts, and, where applicable, provide for holding a full facepiece in the ready position when not in use.

**§ 84.1134 Respirator containers; minimum requirements.**

(a) Except as provided in paragraph (b) of this section each respirator shall be equipped with a substantial, durable container bearing markings which show the applicant's name, the type of respirator it contains, and all appropriate approval labels. Except for dust, fume, and mist respirators, the commercial designation of the respirator it contains shall be shown.

(b) Containers for single-use respirators may provide for storage of more than one respirator, however, such containers shall be designed and constructed to prevent contamination of respirators which are not removed, and to prevent damage to respirators during transit.

(c) Containers for gas masks combinations shall be designed and constructed to permit easy removal of the mask.

**§ 84.1135 Half-mask facepieces, full facepieces, hoods, helmets, and mouthpieces; fit; minimum requirements.**

(a) Half-mask facepieces and full facepieces shall be designed and constructed to fit persons with various facial shapes and sizes either:

- (1) By providing more than one facepiece size; or
- (2) By providing one facepiece size which will fit varying facial shapes and sizes.

(b) Full facepieces shall provide for optional use of corrective spectacles or lenses, which shall not reduce the respiratory protective qualities of the respirator.

(c) Hoods and helmets shall be designed and constructed to fit persons with various head sizes, provide for the optional use of corrective spectacles or lenses, and insure against any restriction of movement by the wearer.